

Eaton 93E UPS Technical Specifications

General	
UPS output power rating (0.9 p.f.)	80 100 120 160 200 kVA 72 90 108 144 180 kW
Efficiency in double conversion mode (full load)	93.5%
Efficiency in double conversion mode (half load)	93.3%
Efficiency in High-Efficiency mode (HE)	98.5%
Distributed paralleling with Hot Sync technology	3 + 1
Inverter/rectifier topology	Transformer-free IGBT with PWM
Audible noise	≤65 dB (80-120kVA) and ≤70dB (160-200kVA) at a 1m, 75 % load
Altitude (max)	1000 m without derating (max 2000 m)

Input	
Input wiring	3 ph + neutral
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz
Input voltage range	+20% / -15% at 100% load +20% / -50% at 50% load
Input frequency range	42-70 Hz
Input Power Factor	0.99
Input ITHD	< 5%
Soft start capability	Yes
Internal backfeed protection	Yes

Battery	
Battery type	VRLA
Charging method	ABM technology or Float
Battery nominal voltage (lead-acid)	432 V (36 x 12 V, 216 cells)
	456 V (38 x 12 V, 228 cells)
	480 V (40 x 12 V, 240 cells)
Charging current / Model	80 100 120 160 200
Default A	20 20 20 20 20
Max* A	40 40 40 80 80

*May be limited by maximum UPS input current rating

Output	
Output wiring	3 ph + neutral
Nominal voltage rating (configurable)	220/380, 230/400 (default), 240/415 V 50/60 Hz
Output UTHD	<2% (100% linear load)
Output power factor	0.9
Permitted load power factor	0.7 lagging – 0.9 leading
Overload on inverter	10 min 102-125% load
	1 min 126-150% load
	150 ms >151% load
Overload when bypass available	Continuous <115% load, 20 ms 1000% peak current. Note! External bypass fuses may limit the overload capability.

Accessories	
External battery cabinets, internal manual bypass switch up to 120 kVA, external maintenance bypass switch, MiniSlot connectivity (Web/SNMP, ModBus/Jbus, Relay)	

Communications	
MiniSlot	2 communication bays
Serial ports	USB, RS232
Relay inputs/outputs	Two Signal inputs

Compliance with standards	
Safety (CB certified)	IEC 62040-1
EMC	IEC 62040-2, EMC Category C3
Performance	IEC 62040-3

Due to continuous product improvement programs, specifications are subject to change without notice.